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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Group Art Unit: 2862
 Ray Fli Lee, et al. : Examiner: Diego Gutierrez
 Patent No. 6,833,700
 Issued: December 21, 2004
 For: METHOD AND APPARATUS FOR RECONSTRUCTION OF IMAGES IN PARALLEL MRI
 SYSTEMS

CERTIFICATE OF CORRECTION

Honorable Assistant Commissioner of Patents and Trademarks,
 Alexandria, VA

SIR:

Please find attached a Certificate of Correction submitted to correct issued patent 6,833,700 to correct the equation in claim 10.

The error in publishing Claim 10 comes in the equation where the third character from the left (T) should be a superscript instead of a subscript.

Claims 10 should read as follows:

10. A method for reconstruction for use in a parallel MRI system wherein a plurality of MR detector coils are arranged in an array and each coil has a corresponding spatial sensitivity profile, the method comprising:

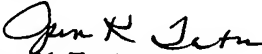
detecting a plurality of gradient-encoded MR signals from the plurality of MR detector coils;
 processing the detected MR signals with at least one filter bank to reconstruct at least one image; and

wherein the filter bank and the intermediate filter bank satisfies an equation in accordance with

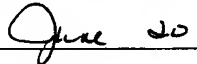
$$G(z)^T = (z^{-d} 0 \dots 0) F_a^{-1}(z) V^{-1}(z^m), \text{ wherein } G(z) \text{ represents a synthesis}$$

filter bank $F_a(z)$ is an aliasing component matrix of the sensitivity profiles F , z^{-d} is a time delay, V is an additional filter bank inserted between the decimation stage and the interpolation stage for stability and M is a decimation factor.

Respectfully submitted,


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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,833,700

DATED : December 21, 2004

INVENTOR(S) : Ray Fli Lee, Christopher Judson Hardy

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

10. A method for reconstruction for use in a parallel MRI system wherein a plurality of MR detector coils are arranged in an array and each coil has a corresponding spatial sensitivity profile, the method comprising:

detecting a plurality of gradient-encoded MR signals from the plurality of MR detector coils;

processing the detected MR signals with at least one filter bank to reconstruct at least one image; and

wherein the filter bank and the intermediate filter bank satisfies an equation in accordance with

$$G(z)^T = (z^{-d} 0 \dots 0) F_a^{-1}(z) V^{-1}(z^m),$$
 wherein $G(z)$ represents a synthesis filter bank $F_a(z)$ is an aliasing component matrix of the sensitivity profiles F , z^{-d} is a time delay, V is an additional filter bank inserted between the decimation stage and the interpolation stage for stability and M is a decimation factor.

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